

**Somali - T5** Giorgio I2VXJ and Don IK2EGL will operate from T5GG through Aug. 22, emphasizing CW. During the WAE CW Test, Aug. 13-14, they'll work EU only. QSL to Mario Ambrosi I2MQP, Via Stradella 13, 20129 Milano, Italy. Donations would be very appreciated.

**Mozambique - C9** Kjell SM7DZZ has activated C9MKT, and will continue to do so about one week per month, using the log periodic antenna on the Swedish Embassy. Next operation is Aug. 12-14. Watch 14300-310, and 21290-300 kHz. He's been on 28530 kHz at 12Z, and 21290 kHz at 13Z. He'll work CW on the SSB frequency on request. He hopes to get his own C9MKG operating permission this Fall. QSL to SM5KDM.

Edited by Chod Harris VP2ML

# The DX Bulletin

America's Premier Weekly Amateur Radio Publication

**Congo - TN** Tom Gregory N4NW returns to TN4NW Aug. 8. He'll put up the beam, and operate if he has time. Then he'll be on most evenings 18-2100Z for about two weeks, 10-40M. Try 7070, 14180, 21250, and 28555 kHz. Please, don't ask him to change bands; he'll announce when he will QSY. No duplicate QSOs, either. Donations for this very expensive operation would help greatly. QSL to AL7EL (see I442.)

**Faroes - OY** SM0s FSK, OPC, KAK, and OUG will be OY/ Aug. 10-21, including 6 meters.

**Vanuatu - YJ** DX Family News reports that members of the Japan Radio Co. ham club will be YJ/ Aug. 1-5, on all bands 80-10 meters, CW and SSB. They'll be on 30 meters at 10105 kHz daily at 1200Z. Ops are JA1FUI, JA1IFP, JL1RUC, and JH8FAJ.

St. Pierre and Miquelon - FP

Pat Bittiger F2DX (ex-F6EYS) starts a three-year assignment in FP, as FP5DX, this month. He plans operation on 160-10 meters, CW and SSB (and RTTY if he can get suitable equipment.) He'll operate around the usual DX frequencies, often listening up about 10 kHz. He prefers partial calls. QSL Pat at P.O.Box 4204, 97500 St. Pierre et Miquelon (North Atlantic). Bureau cards okay.

Pat urgently needs a good price on an Apple Macintosh SE computer with a 40 or 45 meg internal hard disk (Rodine, ie.), and Imagewriter II printer, including dealer address and export information. Contact him at the above address.

**Galapagos - HC8** HC2DZ plans to be on as HC8DZ Aug. 1-9, 160-10 M, SSB, RTTY and AMTOR. Watch 28500, 21285-95, 14195, 7080-88 kHz (listening 7174) and 80 and 160 DX windows. QSL home call, 1987 or 88 Callbook address.

**Liechtenstein - HB0** Wim PA2WJZ and Nico PA0ONH will be HB0/ Aug. 1-17, concentrating on CW and 30 meters. QSL to home calls. (Thanks DXpress.)

**Isla de la Plata - A New One for IOTA**  
Members of the Guayaquil radio club will put this tiny island on the air for the first time Aug. 10-14, signing home calls /HD4, on 80-10 M, and maybe 160. Mostly SSB on usual DX frequencies, with some CW. Isla de la Plata is at 81° 4'E, 1° 16'S.

Reserve Your Island - CQWW

- W6OSP plans to be SV5/ in CQWW CW.
- N4WW and NX4N will sign PJ1W from Curacao in the SSB test.
- K3KG, K3ZR, and K4FJ will put 8P9X on in the SSB test.
- Rick NE8Z returns to the Galapagos HC8 for the SSB contest.
- and Ron AA5DX will put VP2MW on in the CW test. On the better side of Montserrat, ex-TDXB editor Jim Cain K1TN will be on as VP2MDC in the CW test, from The Last Resort.

Shortly Noted

- CE0ZAM is Juan Torres, Box 1, Juan Fernandez, Chile. Try 7163 kHz net at 06Z.
- FM4EB wants to get on 6 meters as well as HF bands from FG Aug. 11-19.
- Several French stations will be on from C30 in early August.
- Look for SV9/F2VX Aug. 9-23, 10-20M.
- JR1AIB has rescheduled his RTTY operation from YI1BGD to Sept. 5-8.
- UB4JDM/UF10 from Oblast 015 is due on this month. See also RB4JWS/UF1 in Bandpass.



# PROPAGATION

## Forecast and Historical Data

Day Forecast	27 Days Before	55 Days Before
August	Date Flux A K	Date Flux A K
5 High Nor	7/9 133 02/12 2	6/11 134 07/16 2
6 High Nor	7/10 134 09/16 3	6/12 122 04/10 1
7 Below Nor	7/11 137 21/36 2	6/13 112 07/18 1
8 Low/Below	7/12 133 18/30 3	6/14 108 23/37 3
9 High Nor	7/13 138 07/14 2	6/15 111 09/18 2
10 High Nor	7/14 145 08/18 2	6/16 118 07/17 1
11 High/Low	7/15 146 10/22 2	6/17 121 11/21 2
12 Disturbed	7/16 149 21/42 2	6/18 122 13/21 3
13 High Nor	7/17 157 08/17 2	6/19 116 20/33 3
14 Low Normal	7/18 148 13/24 2	6/20 115 14/35 3
15 High/Low	7/19 138 08/20 2	6/21 121 07/16 2
16 High Nor	7/20 137 03/13 1	6/22 119 14/22 3
17 Disturbed	7/21 141 21/65 3	6/23 125 11/17 3
18 Disturbed	7/22 137 22/48 3	6/24 135 20/31 4
19 Below Nor	7/23 140 15/32 1	6/25 150 24/48 3
20 High/Low	7/24 134 08/19 1	6/26 155 13/29 3
21 High Nor	7/25 137 05/14 2	6/27 155 11/21 3
22 Below Nor	7/26 145 16/38 3	6/28 178 14/22 1

Thanks KH6BZF and Space Environment Services Center.

### Propagation Watch

The month of July finished with a flurry of solar activity, pushing the solar flux to 187. The flux never dropped below 130 for the entire month, making July the month with the highest average solar flux so far in Cycle 22. Great DX is coming soon!

The month was marred by several solar disturbances, however, and seasonally low MUFs in mid-summer (in the Northern hemisphere) have put a damper on DXing.

We can expect more of the same conditions in August, with gradual improvement and higher MUFs as we near the Fall equinox in late September.

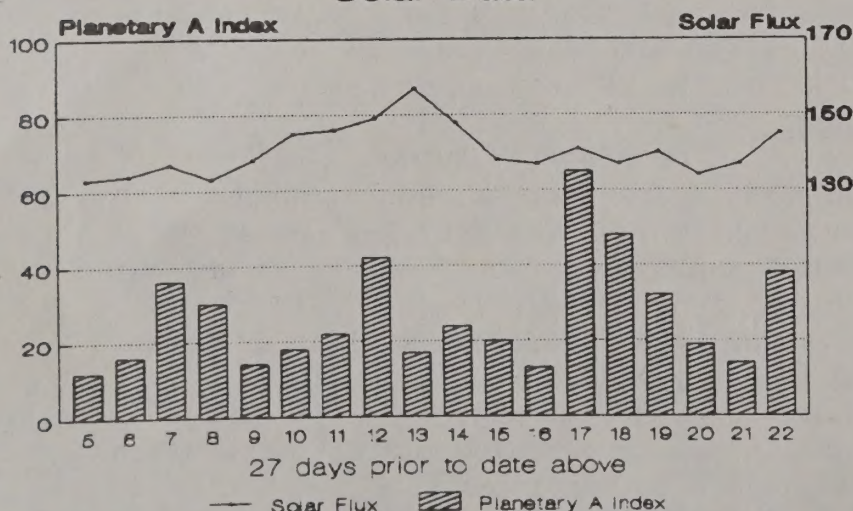
20 meters has been providing the bulk of the DX recently, and will continue to do so in coming weeks. The early morning (local) opening to the West has been very productive, as is the polar path, on those days when low geomagnetic activity permits contacts.

15 meters occasionally opens, and when it does, the DXing is great. Openings follow the sun, to the east in the morning, swinging west later in the day.

10 meters has been very disappointing, with only a few openings during the month, despite very high levels of solar activity. The north-south is open daily, however. And the 40-meter early morning long path often yields good DX.

The best days for DXing in early August should be 5-6, 9-10, 13-16, and 20-21, if the solar activity repeats itself this next solar revolution.

### Solar Data



## East Arctic DXpeditions

Several teams of amateurs from Novosibirsk in the USSR are operating from a variety of rare spots in the far eastern tip of Siberia, through the end of August.

Team 1, the Chukotskiy team, will operate from Lavrentiya, Uelem, and Cape Deznev, using the callsign EK0AKR. In addition they will put Big Diomed Island on the air for the first time. The Diomed islands are where Russian and US territory are closest, in the middle of the Bering Strait. The Diomed islands do not yet have an Islands On The Air reference number, but they'll get an NA or an AS number following this operation.

Team 2, the Schmidt team, will be on as EK0AKW from Cape Schmidt, Vankaren, and Wrangle Island (AS-27). (Wrangle Island is the subject of an outstanding claim by the United States, and would qualify as a separate country for DXCC if the Russians honored the 19th century purchase of the island by US interests.)

Team 3, the Chaunskaya team, will be on as EK0AKA from Pevek, and Ayon Island (AS-38).

Operating frequencies for all teams will center around 1855, 3510, 7010, 14025, 21025 and 28025 kHz on CW, and 1880, 3646 (3794), 7080 (7214), 14160, 21275, and 28575 kHz on SSB. They expect to be on 20 meters 08-1400Z, and on 40 meters 19-2300Z. They'll also try 2 meters into Alaska, on 144.30 MHz.

Operators include UA90BA, UA0IAP, UA0IAY, UA0IL, UW0IP, UW0IG, UA9MAD, UA9KCA, RA0AA, UA9OMD, UZ9OWM, UZ9OWB, UZ9OWK, and others. All contacts count 5 points toward the RAEM award. All are in Oblast 139.

QSL to Yuri V. Zaruba UA90BA, P.O.Box 1, Novosibirsk-92, 630092, USSR.

### Islands On The Air

- According to DXPress, JI6KVR will operate from Sakishima Island (AS-24) this month.
- The Nanticoke ARC from Delaware will operate from Smith Island (NA-83) Aug. 5-7. 40 kHz up on CW, and 3860, 7260, 14260, 21360, and 28460 kHz on SSB, with the call KW3Z. QSL to K3TLG, with SASE or SAE and IRCs for direct return. [Thanks Worldradio.]
- I4ALU/ID9 is the call of Carlo Amorati from Salina Is. (EU-17), CW only, August 1-20. QSL home call.
- Carl CM6CG says he will be on from Los Canarreos (NA-56) through mid-September as T46CL. QSL Box 255, Cienfuegos 55100, Cuba.
- Cozumel Island is now NA-90, separate from NA-45, which comprises the other islands of the Mujeres group, such as Cancun. XE1IUQ/XF3 has been active from this New One for IOTA.
- JR6CSY on Goto Island (AS-40) has been worked in Europe.
- PP5ADK is on Sao Francisco Island (SA-27).
- JH1RYN hopes to get on from Izu Shichito Island (AS-08) later this month.
- UA0BEZ on Severnaya Zemlya (AS-42) has been on 20M CW working Europe.
- and see the Russian East Arctic operation above. [Thanks to DX News Sheet and others for this IOTA information.]

### W9DXCC Convention

The Northern Illinois DX Association will once again host the annual W9DXCC Convention on Saturday, Sept. 10, at the Glen Ellyn Holiday Inn, 1250 Roosevelt Road, Glen Ellyn IL 60137. Registration is \$23, including banquet and door "award" ticket (\$26 if postmarked after Sept. 1, 1988.) Registrar is Howie Huntington K9KM, 65 South Burr Oak Drive, Lake Zurich IL 60047, or pay at the door. Featured speakers are the Colvins on their 1988 tour, Mike McGirr K9AJ on Palmyra and Kingman Reef, Barry Garratt VE3CDX on Ski-Trek, and lots more. Sounds like another winner!



# BANDPASS

Reports Wanted,  
Especially RTTY, 30 meters

## -----RTTY-----

6W6JX	21088	1448	24	IN
6W6JX	14090	0045	26	CA
A35SA	14092	0343	16	NH
AH9AC	14082	0549	12	FL
CT1BHX	14095	2330	17	OH
FO5LQ	14086	0655	19	CA
J6LQE	14096	0020	11	MN
KH2/KD7P	14094	0705	16	CA
KH3/WY5L	14087	0405	24	CA
PJ2MI	14089	1210	17	OH
T31JS	14085	0300	18	FL
TZ6MG	14085	2253	15	FL
UT5RP	14082	0235	26	CA
UW9CY	14090	0215	20	CA
XE1SAN	14090	1150	17	OH
XF1C	7085	0700	27	CA
YO6A00	14092	0240	18	OH
YU4KCA	14087	0535	26	CA

## -----160 Meters-----

KH6CC	1832	0446	25	WA
KX6DC	1833	0905	8	MA
LU2DVI/H	1838	0511	22	WA
LU5HJD	1833	1029	16	MT
VK7BC	1833	1034	16	MT
ZL2ANR	1831	1230	16	WA

## -----80 Meters-----

KH3/WY5L	3503	0958	23	PA
YJ8NJS	3504	1010	17	PA

## -----75 Meters-----

KC6JC	3799	1007	23	PA
UA0FF	3799	1007	16	PA
YC6GR	3798	2335	15	PA
ZS1MH	3799	2301	15	PA

## -----40 Meters-----

5T5NU	7086	0550	25	CA
5V7WD	7081	0600	23	CA
CE0ZAM	7163	0615	24	MS
FS/FG5BP	7021	0409	23	MA
FT5ZB	7006	1048	11	MN
HB0HTB	7001	0205	17	MA
HZ1AB	7002	0143	24	FL
KC6JC	7163	0730	14	FL
KH3/WY5L	7005	0700	17	IA
YB0ARA	7002	2318	16	MA
YC9VGJ	7075	1100	17	OR
YJ8AA	7009	1137	18	MN
ZS1DM	7089	0545	22	CA

## -----30 Meters-----

JE7QUZ	10107	1350	22	CA
VK3NC	10108	2219	13	MD

## -----20 Meter CW-----

3A0JD	14026	2314	23	FL
3B8CF	14033	0405	23	FL
3B9FR	14025	0345	17	NC
8J4XPO	14026	1105	20	MA
CE0ZIG	14030	0514	23	MT
EA9KQ	14028	0034	19	MN
EJ1000	14022	2130	23	VA
EK0AKA	14018	0200	28	FL
FR5ES	14017	1152	13	GA
FT5ZB	14014	0331	23	MD
GW5SG	14012	2315	20	FL

HZ1AB	14014	2101	14	MN
J52US	14013	2155	25	VA
JT1BR	14009	1315	24	WA
JW/	14002	1430	17	OR

## SP5DRH

OY7ML	14026	2232	17	FL
P29RA	14037	1058	11	GA
ST2KR	14015	2245	22	MA
TA1A	14016	0043	21	MT
UD6DKW	14020	0447	21	MT
UF1Q/	14016	2235	28	FL

## RB4JWS

UF1V/	14022	0015	25	WA
RB4JWS	14042	0056	26	FL
UH8BT	14018	0052	19	FL
UI8QAU	14028	0240	19	WA
UI9AAB	14044	0133	20	FL
UL7R/	14057	0205	24	WA

## UL7GBJ

VK9NL	14031	0710	24	MA
VQ9ES	14041	1325	20	WA
YN3EO	14005	2302	28	FL
ZC4EE	14008	2325	25	IA

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When you work a DX station  
say you saw his call in  
The DX Bulletin

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## -----20 Meter SSB-----

3B9FR	14195	1219	11	GA
3D2DW	14190	1035	16	RI
3D2MP	14187	1051	25	MN
4K0D	14165	1136	14	FL
4S7NS	14185	1225	26	GA
5T5NU	14217	0435	26	VA
5V7WD	14170	0643	14	AZ
6W1NQ	14224	2230	22	IA
7P8DP	14191	1211	16	GA
7X2CX	14224	0206	18	PA
9K2SH	14165	0000	20	MA
9M2SB	14170	1511	15	MT
9M8PV	14165	1243	26	WY
9N1MM	14182	1424	14	OR
9N1RN	14171	1458	25	OR
9Q5FF	14180	2152	24	MA
9V1XI	14222	1642	27	OR
A35SA	14207	0453	17	IN
A4XGY	14237	0048	14	MD
BY4AY	14195	1208	20	GA
C53FJ	14251	2255	10	VT
C9MKT	14198	2150	23	MA
CE0DFL	14177	0329	16	NH
CN2AQ	14254	0452	1	VT
CN8EL	14160	2330	12	PA
CN8FC	14193	0243	61	MN
D44BC	14218	0257	25	MN
EA9KQ	14211	0021	14	MI
FH5EF	14230	2107	23	MA
FH8CB	14240	0407	17	FL
FK8FU	14175	1040	16	RI
FR5DX	14189	0429	15	MI
FR5DX	14200	1125	24	MA
FT5ZB	14165	1232	25	IA
H44GP	14168	1132	20	MA
H44MB	14174	1131	25	MD
HK0EFU	14171	1040	24	MA
HK0HEU	14210	2334	17	VA
HS0B	14191	1155	26	GA
HZ1AB	14186	0515	24	MA

J28DN	14215	0200	26	CA
J52US	14205	0117	12	NH
J52US	14166	2025	17	MD
JY9LC	14180	0324	24	MA
KC6IN	14201	1116	16	RI
KC6JC	14230	0936	9	GA
KH0AC	14192	1320	23	MN
KX6HE	14180	1123	18	MA
KX6HN	14194	1205	17	OH
P29DD	14187	1122	20	MD
P29JP	14186	1159	15	MA
R3EKM	14214	0145	14	PA
S79D	14177	0144	21	MA
T20AA	14245	1119	25	MD
T30BC	14310	1024	16	AL
T53RC	14183	1945	22	IA
T5GG	14240	2030	23	IA
TJ1AP	14193	2014	22	MD
UI8ZAA	14194	0114	11	WI
UJ8JX	14195	1600	14	WA
UQ1GWW	14267	2013	17	IL
V85HG	14182	1205	26	IA
VK9ND	14180	1055	26	MA
VQ9ES	14210	1401	20	MT
VR6ID	14240	0404	24	IA
VU2GI	14199	0056	14	AL
XU1SS	14190	1611	15	CA
YI1BGD	14213	0008	28	MD
YJ8AA	14190	1400	19	OR
YK/	14246	1655	12	NH

## OE1RUA

YK1AO	14246	1828	12	NH
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## -----15 Meter CW-----

6W6JX	21091	1818	24	NM
EA9JS	21012	0015	14	MI
EK0AL	21022	2358	29	FL
FS/FG5BP	21021	1125	22	MD
HV1DO	21026	1940	14	OR
J52US	21023	2110	25	VA
KX6DS	21032	0233	12	CT
OY7ML	21025	1927	10	WI
TL8KH	21042	1800	25	EU
TU4CO	21010	2120	25	VA
TU4CQ	21091	1845	24	NM
UI8ADQ	21011	0300	21	WA
VQ9QM	21027	1500	25	CT
YN3CC	21039	1715	24	MD
Z24JS *	21023	1430	28	CA
ZC4EE	21012	2104	7	GA
ZD8HR	21007	2048	5	KY

## -----15 Meter SSB-----

5T5DX	21233	2212	15	GA
5T5DX	21307	1220	15	RI
5V0FE	21278	2139	20	CA
5V7WD	21252	1732	10	CA
5W1FV	21341	0122	17	IL
5Z4DU	21320	1930	25	NY

9J2WS	21254	1819	10	CA
9Q5NW	21250	1840	23	MA
A4XKL	21266	1846	20	MD
A92BE	21295	1845	19	MA
BY1PK	21240	1711	15	NH
C30EAF	21295	1400	25	NY
C53FB	21293	1956	25	MA
D44BC	21262	1933	15	FL
FJ5BL	21260	1955	13	MA
HH7PV	21302	2100	14	MT
HK0HEU	21285	1750	26	NY
HK0NZI	21339	1345	24	VA
HZ1AB	21260	1227	15	RI
HZ1AB	21312	1940	20	NY
J52US	21207	1100	16	JA
J52US	21303	2000	23	MA
OD5VT	21251	1720	26	NY
OD5WA	21294	1172	15	JA
PY0FF	21245	1737	23	MA
SV0DX	21300	1327	26	MD
SV0FE	21258	2105	20	IA
TL8FF	21268	1752	14	MD
TL8HW	21335	1920	20	IA
TU2PA	21355	2017	15	MT
TU2PA	21260	1195	25	MA
UH8AAX	21298	1255	11	JA
UI8ZAA	21213	1250	25	IA
VR6ID	21305	1195	18	MD
VR6TC	21346	0223	6	MD
YK/	21288	1930	10	MA

## OE1RUA

ZL2ANT	24949	0150	25	CA
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## -----10 Meter CW-----

C30EAF	21296	1905	24	MD
CE0FFD	28028	2350	29	FL
CE0ZIG	28027	1955	11	MD
EC8BPR	28008	2004	24	FL
IS0TPG	28020	1945	30	FL
JY5CW	28021	1945	30	FL
PZ1AV	28031	1950	30	FL
TU4CO	28009	2000	12	FL

## -----10 Meter SSB-----

EA9IB	28487	2259	12	NY
HK0HEU	28490	2201	17	CA
KH3/	28311	0255	6	WI

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## July-August Calendar

Sun	Mon	Tue	Wed	Thu	Fri	Sa
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20

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## RTTY Report

Callsign	Frequency	Time	Callsign	Frequency	Time
KX6HE	14074 kHz	0500Z	FO5LQ	14096 kHz	0645Z
KG4DM	14092 kHz	0245Z	HH2CP	14087 kHz	0130Z
KG4TM	14073 kHz	1545Z	V85GA	14077 kHz	2300Z
KG4TM	14074 kHz	2300Z	V85DA	14090 kHz	1400Z
VU2NR	14091 kHz	0100Z	9K2DZ	14072 kHz	23



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Expires      Signature

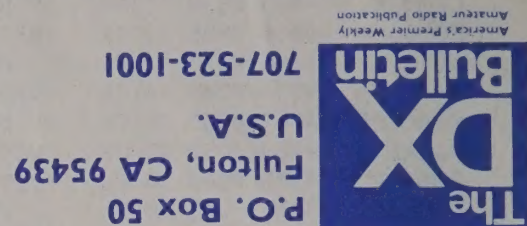
Name      Call sign

Address

City      State      Postal Code      Zip + 4 or Country

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## CALENDAR

Issue 448 - August 5, 1988

(Changes and hot info in boldface.)

Amsterdam - FT8Z FT5ZB 14165+ 1000Z I446  
7005 1030Z; 14025 1030Z  
7006 0145Z, 160M too I447  
Andorra- C30 by French early Aug. I448  
Antarctica ZL5BKM 80/40 8J1RY 15I446  
Arctic - EK0A Russian IOTA, RAEM I448  
Cape Verde - D4 D44BC 14205 0300Z I444  
Chagos - VQ9 VQ9QM 21025-30 1400Z I446  
China - BY BY4RB 14025-30 1230Z I446  
Columbia - 5K 5K3B Aug 1-30 15/40M I447  
Congo - TN TN4NW 18-21Z daily I448  
Corsica - TK TK/HB9TL from Jul 14 I441  
Faroes - OY by SM0s Aug. 10-21 I447  
Franz Josef Land UA0BEZ/1 Sept. 1988 I446  
Galapagos - HC8 HC8DZ Aug. 1-9 SSB I448  
RTTY and AMTOR, too  
Guam - KH2 KH2/KD7P on now! I446  
Guinea-Bissau J5 J52US 14225 0145Z I446  
Iraq - YI YI1BGD RTTY Sept 5-8 I447  
14195, 20M SSB >23Z I448  
Isla de la Plata /HD4 IOTA New One I448  
Isle of Man - GD Aug. 26-Sept. 7 I446  
Ivory Coast - TU TU4CO 21010 2100Z I448  
Jordan - JY JY9LC 14190 0200Z I445  
Juan Fernandez CE0ICD 14236 2230Z I447  
CE0ZAM 7163 at 0600Z I448  
Lebanon - OD OD5LX 14022 0200Z I445  
Liechtenstein HB0 HB0/F6GMB Aug 8-20 I447  
PA2WJZ, PA00NH Aug. I448  
Mauritania - 5T 5T5NU 20M SSB 0430Z+ I448  
Mayotte - FH8 FH8CB 14240 0400Z I448  
Morocco - CN CN2AQ 20M SSB 0330Z I446  
CN8FC 21025-40 2000Z I447  
Mozambique - C9 C9MKT Aug. 12-14 I448  
21290-300, 14300-310  
Nicaragua - YN YN3EO 14003 0100Z I444  
Norfolk Is. VK9N VK9ND 21370 0130Z I445  
St. Pierre - FP by W9s Aug 10-18 I440  
FP5DX soon-3 yrs I448  
San Andres - HK0 HK0HEU 15M SSB 1800Z I448  
Sao Tome - S9 S92LB 21290 2000Z I445  
Saudi Arabia - HZ HZ1AB 15M SB 2000Z I448  
Solomons - H4 H44X to Aug. 10 I444

Somali - T5 T5GG on CW to Aug 22 I448  
Sovereign Bases ZC4EE 14008 23-03Z I448  
Sudan - ST2 ST2KR 14015-25 2300Z I448  
Thailand - HS HS0B 14190 11-1400Z I448  
Tuvalu - T2 CQWW SSB by K8JRK I432  
Vanuatu - YJ by JAs Aug. 1-5 I448  
W. Malaysia - 9M2 9M2LE 1130Z 20CW I443  
Yemen - 4W 4W0EA Delayed I440  
Zaire - 9Q 9Q5DX 21036 2030Z I445  
20 Meter SSB Net Regulars  
5V7SA 5H3RB D68MG TL8HW 1Z9A 1Z9B EA9KQ  
3D2ER XU1SS BV2DA P29PL 3B9FR

### DX Activities and Contests

Date	Event or Activity	Info
August 1	TDXB Surveys due	TDXB
Aug. 13-14	European CW test	CQ
Aug. 27-28	Tokyo DX Conv.	JR1AIB
Aug. 27-28	All Asian CW Test	CQ
Sept. 9-10	W9DXCC Convention	K9KM
Oct. 8-9	DXPO 88 Washington	

### Contributors

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